

ARIC MANUSCRIPT PROPOSAL FORM

Manuscript #006

1. Title (length 26):

Apo A-1 and apo-B associations with wall thickness

2. Writing Group (list individual with lead responsibility first):

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3. Timeline:

Publication to follow "bridge paper" (ultrasound versus standard risk factors) and LDL and HDL paper. But, publication is a priority for 1991. Preliminary analysis should begin now with Year 01 data.

4. Rationale:

Apoproteins provide structure for lipoproteins, interact with enzymes which direct lipoprotein metabolism and modulate lipoprotein cellular uptake. Associations of apo A-1 and B with wall thickness will be compared in this paper with associations for the cholesterol content of the corresponding lipoproteins (HDL-C and LDL-C), addressing the question of their relative importance in atherogenesis. Lp(a) has been shown to be a risk factor for coronary heart disease, independent of other lipoprotein levels. This relationship has not been examined for any direct measure of atherosclerosis.

5. Main Hypothesis:

6. Data (variables, time window, source, inclusions/exclusions):

Associations of apolipoproteins A-I and B and lipoprotein Lp(a) with ultrasound-measured arterial wall thickness in general populations.

Preliminary analyses should begin now with Year 01 data. Only apo A-1, B and Lp(a) must be added to the dataset used for the bridge paper. Two-year data are preferable for publication.

Keywords: Apo A-1, Apo B, Apo A, wall thickness